

Device and method for health monitoring of an area  
of a structural element, and structure adapted  
for health monitoring of an area of a structural  
element of said structure

**ABSTRACT**

Device for health monitoring of a structure comprising a dielectric material of permittivity  $\epsilon_r$ , comprising a source of electromagnetic radiation, generating an electric field in the structure  
a detector measuring a component of the electric field, calculation means giving the value of  $\epsilon_r$  on the basis of the said component.

**FIGURE 2**